THE PRIMARY TYPES OF ARACHNIDA, CHILOPODA, DIPLOPODA, INSECTA, ONYCHOPHORA AND PYCNOGONIDA IN THE WESTERN AUSTRALIAN MUSEUM

L.E. KOCH*

ABSTRACT

The primary type specimens of Arthropoda (excluding Crustacea) lodged in the Western Australian Museum are listed. The numbers of species or subspecies in the various groups are Arachnida (Scorpionida 10, Phalangida 2, Araneida 23, Acarina 6), Chilopoda 3, Diplopoda 10, Insecta (Thysanura 2, Odonata 10, Blattodea 41, Isoptera 4, Dermaptera 2, Embioptera 1, Hemiptera 7, Neuroptera 8, Coleoptera 48, Siphonaptera 1, Diptera 35, Trichoptera 3, Lepidoptera 8, Hymenoptera 53), Onychophora 1, Pycnogonida 7.

INTRODUCTION

This paper lists the primary type specimens of various groups of the Phylum Arthropoda, excluding the Crustacea, lodged in the Western Australian Museum. The list has been essentially compiled from the collection and includes all the types whose published descriptions have come to hand by the date of submission of the present paper. Primary types are here defined as the name-bearing specimens, i.e. holotypes, syntypes and lectotypes; there are no neotypes, and paratypes are excluded. Data from the type lists which I compiled for the published Annual Reports of the Western Australian Museum (1961-62 to 1968-69) have been incorporated.

The classes are listed alphabetically. The arachnid orders are in the sequence given in 'Classification of Insects', Brues, Melander and Carpenter, 1954. The insect orders are in the sequence given in 'The Insects of Australia', CSIRO, 1970. The order names of the Chilopoda and Diplopoda are those given in "Treatise on Invertebrate Paleontology" Part R, Arthropoda, 4(2), 1969, and are in the same sequence. The families, genera and species are arranged alphabetically within each order.

* Western Australian Museum, Francis Street, Perth, Western Australia, 6000.

For each species or subspecies, the information includes, wherever recorded, the sex of the type, the collector's name, date of collection or registration, and the locality of collection, for which I also include the latitude and longitude. Unfortunately, many of the old dates in the registers of the Western Australian Museum are not the dates of collection of the specimens but of their registration. Therefore in this list, wherever the date of collection is thought to be correct it is given preceded by 'col.', but wherever it is unknown the date of registration is given instead and is preceded by 'reg.'

The generic names are those with which the specific names were originally combined.

LIST OF TYPES

CLASS ARACHNIDA

ORDER SCORPIONIDA

Family Buthidae

Lychas jonesae Glauert, 1925, *J.R. Soc. West. Aust.* **11:** 110-111. Holotype, ♂, in alcohol, WAM 24-446. F. Jones; reg. 19.v.1924; Hampton Hill Station (Bulong), W.A.; 30°45′S, 121°46′E.

Lychas lappa Glauert, 1954, *N. Qd Nat.* **28:** 4-5. Holotype, ♀, in alcohol, WAM 64-62. W. Hosmer; reg. 24.i.1954; Lappa Junction [Siding], Qld; 17°22′S, 144°53′E.

Family Scorpionidae

Urodacus centralis Koch, 1977, *Rec. West. Aust. Mus.* **5:** 216-219. Holotype, ♂, in alcohol, WAM 73-775. W.H. Butler; col. 20.v.1973; Palm Valley, N.T.; 24°06′S, 132°43′E.

Urodacus elongatus Koch, 1977, *Rec. West. Aust. Mus.* **5:** 191-194. Holotype, ♂, in alcohol, WAM 68-490. J.C. Le Souef; col. x. 1967; Mt Remarkable, S.A.; 32°48′S, 138°10′E.

Urodacus giulianii Koch, 1977, *Rec. West. Aust. Mus.* **5:** 267-268. Holotype, ♀, in alcohol, WAM 69-2013. D.D. Giuliani; col. 7.vii.1969; Mt Davies Camp, 8 km NW of, S.A.; 26°09′S, 129°06′E.

Urodacus koolanensis Koch, 1977, *Rec. West. Aust. Mus.* **5:** 226-228. Holotype, ♂, in alcohol, WAM 68-487. O. Milton; col. 16.ix.1966; Koolan I., W.A.; 16°08′S, 123°45′E.

Urodacus lowei Koch, 1977, *Rec. West Aust. Mus.* **5:** 280-283. Holotype, ♂, in alcohol, WAM 69-620. W.R. Lowe; col. 2.ix.1967; Lawley River and Mitchell River area, within 16 km of, W.A.; 14°58′S, 126°02′E.

Urodacus megamastigus Koch, 1977, *Rec. West. Aust. Mus.* **5:** 229-231. Holotype, ♂, in alcohol, WAM 66-368. A. Snell; col. 8.iv.1963; Mundiwindi, W.A.; 23°50′S, 120°10′E.

Urodacus similis Koch, 1977, *Rec. West. Aust. Mus.* **5:** 284-286. Holotype, ♂, in alcohol, WAM 69-467. T. Moriarty; col. iii-iv.-1963; Kathleen Valley, W.A.; 27°23′S, 120°38′E.

Urodacus varians Glauert, 1963, *West. Aust. Nat.* **8:** 133-134. Holotype, ♂, in alcohol, WAM 62-1. O.H. Lipfert; col.iv.1930-x.1931; Canning Stock Route, from Wiluna to Billiluna, W.A.; 26°35′S, 120°14′E to 19°33′S, 127°40′E.

ORDER PHALANGIDA

Family Phalangodidae

Bindoona glauerti Roewer, 1929, *J.R. Soc. West. Aust.* **15:** 97-98. Holotype, in alcohol, WAM 27-672. L. Glauert; col. 14.v.1927; South Bindoon, W.A.; 29°59′S, 115°12′E.

Family Triaenonychidae

Dingupa glauerti Forster, 1952, *J.R. Soc. West. Aust.* **36:** 23-27. Holotype, ♂, in alcohol, WAM 36-2136. L. Glauert; col. iii.1936; Dingup, W.A.; 34°14′S, 116°12′E.

ORDER ARANEIDA

Family Araneidae

Aranea recherchensis Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 41-42. Holotype, ♀, in alcohol, WAM 55-4984. V.N. Serventy; col. 7.xi.1950; Figure-of-Eight I. (Recherche Archipelago), W.A.; 34°02′S, 121°37′E.

Family Ctenidae

Horioctenoides bidentatus Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 42-44. Holotype, ♀, in alcohol, WAM 55-4982. V.N. Serventy; col. 7.xi.1950; Figure-of-Eight I. (Recherche Archipelago), W.A.; 34°02′S, 121°37′E.

Family Ctenizidae

Aganippe cupulifex Main, 1957, *Aust. J. Zool.* **5:** 436-437. Holotype, ♂, in alcohol, WAM 64-61. B.Y. Main; col. 3.iv.1953; Chittering Lake, W.A.; 31°24′S, 116°05′E.

Arbanitis festivus Rainbow and Pulleine, 1918, *Rec. Aust. Mus.* **12:** 111-112. Syntype, ♀, in alcohol, WAM 64-67. col. 9.xii.1917; Nannup, W.A.; 33°59′S, 115°45′E.

Eucyrtops eremaea Main, 1957, *Aust. J. Zool.* **5:** 421-423. Holotype, ♂, in alcohol, WAM 64-60. A.R. Main; col. 21.v.1956; Cardinia Creek, W.A.; 28°49′S, 121°35′E.

Eucyrtops riparia Main, 1957, *Aust. J. Zool.* **5:** 419-421. Holotype, ♀, in alcohol, WAM 64-59. B.Y. Main; col. 26.v.1954; Mt Misery, 1 mile [1.6 km]S of, W.A.; 30°42′S, 115°37′E.

Idiosoma hirsutum Main, 1952, *West. Aust. Nat.* **3:** 132-133. Holotype, ♀, in alcohol, WAM 29-1060. L.W. Gibbs; reg. 10.viii.1929; Victoria Park, W.A.; 31°57′S, 115°51′E.

Idiosoma nigrum Main, 1952, *West. Aust. Nat.* **3:** 133. Holotype, ♀, in alcohol, WAM 64-58. B.Y. Main; col. 19.vi.1952; Wongan Hills, W.A.; 30°54′S, 116°43′E.

Family Clubionidae

Chiracanthium mondrainensis Main, 1954, in the Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 46. Holotype, ♀, in alcohol, WAM 55-4983. V.N. Serventy; col. 21.xi.1950; Mondrain I. (Recherche Archipelago), W.A.; 34°08′S, 122°15′E.

Family Dipluridae

Dekana wonganensis Main, 1977, in The Natural History of Wongan Hills. *Handbk West. Aust. Nat. Club* no. 11: 102-107. Holotype, ♀, in alcohol, WAM 78-596. B.Y. Main; col. 24.xi.1974; Wongan Hills [s. end of], W.A.; 30°54′S, 116°43′E.

Teyl luculentus Main, 1975, *West. Aust. Nat.* **13:** 73-78. Holotype, ♀, in alcohol, WAM 75-944. B.Y. Main; col. 29.viii.1956; Bruce Rock, 14.5 km N of, W.A.; 31°46′S, 118°09′E.

Troglodiplura lowyri Main, 1969, *J.R. Soc. West. Aust.* **52:** 9-11. Holotype, in alcohol, WAM 68-342. D.C. and J.W.J. Lowry; col. 29.vii.1966; Roaches Rest Cave, 27 miles [43 km] NE of Madura, W.A.; 31°54′S, 127°01′E.

Family Dysderidae

Ariadna decatetracantha Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 40. Holotype, ♀, in alcohol, WAM 55-4981. V.N. Serventy; col. 19-20.xi.1950; Twin Peaks I. (probably North I.) (Recherche Archipelago), W.A.; 35°59′S, 122°50′E.

Family Gnaphosidae

Encoptarthria serventyi Main, 1954, in The Archipelago of the Recherche. *Rep. Aust. geogr. Soc.* no. 1: 44-45. Holotype, ♀, in alcohol, WAM 55-4985. V.N. Serventy; col. 10.xi.1950; Sandy Hook I. (Recherche Archipelago), W.A.; 34°03′S, 122°00′E.

Family Linyphiidae

Laetesia leo van Helsdingen, 1972, *Zoöl. Meded. Leiden* **47:** 383-385. Holotype, ♀, in alcohol, WAM 72-734. J.W.J. Lowry; col. 3.iv.1970; Koonalda Cave, Nullarbor Plain, S.A.; 31°24′S, 129°50′E.

Family Lycosidae

Lycosa alteripa McKay, 1976, *Mem. Qd Mus.* **17:** 417-419. Holotype, ♂, in alcohol, WAM 71-40. R.J. McKay and R. Prince; col. 11.vii.1970; Fitzgerald River, near mouth of, W.A.; 34°05′S, 119°35′E.

Lycosa corallina McKay, 1974, *Mem. Qd Mus.* **17:** 21-26. Holotype, ♀, in alcohol, WAM 71-1645. R.J. McKay and L. Baird; col. 10.vii.1971; Wooded I., Houtman Abrolhos, W.A.; 28°46′S, 113°48′E.

Lycosa duracki McKay, 1975, *Mem. Qd Mus.* **17:** 316-318. Holotype, ♀, in alcohol, WAM 74-494. R.J. McKay and W.H. Butler; col. 23.x.1971; Old Argyle Downs Station (Ord River) [now submerged beneath Lake Argyle], W.A.; 16°17′S, 128°48′E.

Lycosa forresti McKay, 1973, *Mem. Qd Mus.* **16:** 385-389. Holotype, ♀, in alcohol, WAM 70-44. W.H. Butler; col. 17.viii.1953; Moorine Rock, 8 miles [13 km] W of, W.A.; 31°18′S, 119°00′E.

Lycosa salifodina McKay, 1976, *Mem. Qd Mus.* **17:** 421-423. Holotype, ♀, in alcohol, WAM 69-639. A.M. Douglas and L.E. Koch; col. 24.i.1968; Lake Lefroy, Widgiemooltha, W.A.; 31°30′S, 121°34′E.

Lycosa snelli McKay, 1975, *Mem. Qd Mus.* **17:** 313-316. Holotype, ♀, in alcohol, WAM 69-797. A. Snell; col. i.1952; Towera Station, W.A.; 23°11′S, 115°07′E.

Lycosa storri McKay, 1973, *Mem. Qd Mus.* **16:** 389-394. Holotype, ♀, in alcohol, WAM 70-240. W.H. Butler; col. 6.xi.1970; Yellowdine, 38 miles [61 km] S of, W.A.; 31°50′S, 119°39′E.

Family Miturgidae

Janusia muiri Gray, 1972, *J. Aust. ent. Soc.* **12:** 207-210. Holotype, ♀, in alcohol, WAM 73-77. J.W.J. Lowry; col. 20.ix.1966. Weebubbie Cave N2, near Madura, W.A.; 31°39′S, 128°46′E.

ORDER ACARINA

Family Ixodidae

Amblyomma calabyi Roberts, 1963, *Parasitology* **53:** 171-181. Holotype, ♂, in alcohol, WAM 64-70. J.H. Calaby; col. 18.ix.1961; Learmonth, 7 miles [11 km] SSW of, W.A.; 22°20′S, 114°00′E.

Haemaphysalis lagostropi Roberts, 1963, *Aust. J. Zool.* **11:** 53-57. Holotype, ♂, in alcohol, WAM 64-69. W.D.L. Ride; col. 26.vii.1959; Bernier I., W.A.; 24°52′S, 113°08′E.

Ixodes hydromyidis Swan, 1931, *Parasitology* **23:** 485-487. Syntype, ♀, in alcohol, and two microscope slides of parts, WAM 64-68 and 64-68a and 64-68b. D.C. Swan; col. 10.vi.1930; Mundaring Weir, W.A.; 31°57′S, 116°10′E.

Family Trombidiidae

Allothrombium antipodianum kondininum Hirst, 1928, *Proc. zool. Soc. Lond.* **1928:** 1030. Holotype, in alcohol, and two microscope slides, WAM 24-512 and 24-512a and 24-512b. A.D. Robens; reg. 27.v.1924; Kondinin, W.A.; 32°30′S, 118°16′E.

Chyzeria occidentalis Hirst, 1929, *Proc. zool. Soc. Lond.* **1929:** 167-168. Holotype, three microscope slides. WAM 67-72 and 64-72a to 64-72c. reg. 4.vi.1964; Rottnest I. (Ursula's Lake), W.A.; 32°00′S, 115°30′E.

Microtrombidium (Enemothrombium) koordanum Hirst, 1928, *Proc. zool. Soc. Lond.* **1928:** 1023. Holotype, in alcohol, and two microscope slides, WAM 25-431 and 25-431a and 25-431b. F. Bradshaw; reg. 25.v.1925; Koorda, W.A.; 30°50′S, 117°29′E.

CLASS CHILOPODA

ORDER LITHOBIIDA

Family Anopsobiidae

Dichelobius flavens Attems,1911, in vol. 3, pp. 154-157, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7177. Michaelsen and Hartmeyer Expd.; col. 20.vii.1905; Station 99, Lion Mill [= Mt Helena], W.A.; 31°53′S, 116°12′E.

Family Henicopidae

Henicops oligotarsus Attems, 1911, in vol. 3, pp. 150-151, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 3, in alcohol, WAM 7172a to 7172c. Michaelsen and Hartmeyer Expd.; col. 7.x.1905; Station 139, Brunswick, W.A.; 33°15′S, 115°50′E.

ORDER GEOPHILIDA

Family Geophilidae

Polygonarea imparata Attems, 1911, in vol. 3, pp. 161-163, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7140. Michaelsen and Hartmeyer Expd.; col. 28.v.1905; Station 112, Karrakatta, W.A.; 31°58′S, 115°48′E.

CLASS DIPLOPODA

ORDER POLYZONIIDA

Family Polyzoniidae

Siphonotus flavomarginatus Attems, 1911, in vol. 3, pp. 201-204, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7156. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02′S, 117°38′E.

ORDER SPIROSTREPTIDA

Family Cambalidae

Atelomastix albanyensis Attems, 1911, in vol. 3, pp. 194-195, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, *in alcohol,* WAM 7145. Michaelsen and Hartmeyer Expd.; col. 13.viii.1905; Station 165, Albany, W.A.; 35°01′S, 117°53′E.

Dinocambala ingens Attems, 1911, in vol. 3, pp. 190-192, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7173. Michaelsen and Hartmeyer Expd.; col. 31.v.1905; Station 152, Gooseberry Hill, W.A.; 31°57′S, 116°03′E.

Podykipus collinus Attems, 1911, in vol. 3, pp. 184-186, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7146. Michaelsen and Hartmeyer Expd.; col. 9-16.vii.1905; Station 109, Subiaco, W.A.; 31°57′S, 115°49′E.

Podykipus leptoiuloides Attems, 1911, in vol. 3, pp. 186-189, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol,

WAM 7153. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 33°22′S, 116°09′E.

Samichus decoratus Attems, 1911, in vol. 3, pp. 198-199, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7150. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02′S, 117°38′E.

ORDER POLYDESMIDA

Family Paradoxosomatidae

Antichiropus monacanthus Attems, 1911, in vol. 3, pp. 175-176, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7152. Michaelsen and Hartmeyer Expd.; col. 7-12.vi.1905; Station 68, Brown Station, Dirk Hartogs I., W.A.; 26°00′S, 113°10′E.

Antichiropus variabilis ingens Attems, 1911, in vol. 3, pp. 171-172, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2 ♂, in alcohol, WAM 7128a and 7128b. Michaelsen and Hartmeyer Expd.; col. 11.viii.1905; Station 155, York, W.A.; 31°53′S, 116°46′E.

Antichiropus whistleri Attems, 1911, in vol. 3, p. 174, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, in alcohol, WAM 7151. Michaelsen and Hartmeyer Expd.; col. 1.vi.1905; Station 114, Buckland Hill (near Fremantle), W.A.; 32°03′S, 115°44′E.

Orthomorpha triaina Attems, 1911, in vol. 3, pp. 178-179, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 7176. Michaelsen and Hartmeyer Expd.; col. 13.viii.1905; Station 165, Albany, W.A.; 35°01′S, 117°53′E.

CLASS INSECTA

ORDER THYSANURA

Family Lepismatidae

Acrotelsa splendens Nicholls and Richardson, 1926, *J. R. Soc. West. Aust.* **12:** 134-137. Syntypes, ♂ and ♀, five microscope slides of these and appendages, WAM 63-356 and 63-356a to 63-356e. reg. 19.ix.1963; Mt Nairn, (and Milly Milly District), W.A.; 25°55′S, 116°38′E.

Acrotelsa westralis Nicholls and Richardson, 1926, *J.R. Soc. West. Aust.* **12:** 137-139. Holotype ♂, seven microscope slides of it and appendages, WAM 63-357 and 63-357a to 63-357g. reg. 19.ix.1963; Beaconsfield, W.A.; 32°04′S, 115°46′E.

ORDER ODONATA

Family Coenagrionidae

Agriocnemis kunjina Watson, 1969, *Aust. J. Zool.* **17:** 76-78. Holotype, ♂, pinned, WAM 69-760. J.A.L. Watson; col. 1.viii.1958; Old Gardens, Tambrey (Coolawanyah) Station, W.A.; 21°38′S, 117°36′E.

Austroagrion pindrina Watson, 1969, *Aust. J. Zool.* **17:** 68-71. Holotype, ♂, pinned, WAM 69-759. J.A.L. Watson; col. 1.viii. 1958; Nuntara Pools, Tanberry Creek, Tambrey (Coolawanyah) Station, W.A.; 21°38′S, 117°36′E.

Family Corduliidae

Hemicordulia koomina Watson, 1969, *Aust. J. Zool.* **17:** 97-99. Holotype, ♂, pinned, WAM 69-764. J.A.L. Watson; col. 26.vii.1958; Deep Reach [Pool] (Fortescue River, Millstream Station), W.A.; 21°37′S, 117°06′E.

Family Gomphidae

Antipodogomphus neophytus Fraser, 1958, *Proc. R. zool. Soc. N.S.W.* **1956-57:** 71-73. Holotype, ♂, pinned, WAM 58-2. G.F. Bornemissza; col. ii.1954; Kimberley Research Station, W.A.;15°39′S, 128°42′E.

Antipodogomphus neophytus hodgkini Watson, 1969, *Aust. J. Zool.* **17:** 94-96. Holotype, ♂, pinned, WAM 69-766. J.A.L. Watson; col. 31.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39′S, 117°03′E.

Indictinogomphus australis dobsoni Watson, 1969, *Aust. J. Zool.* **17:** 88-89. Holotype, ♂, pinned, WAM 69-763. J.A.L. Watson; col. 31.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39′S, 117°03′E.

Family Libellulidae

Nannophlebia injibandi Watson, 1969, *Aust. J. Zool.* **17:** 100-103. Holotype, ♂, pinned, WAM 69-765. J.A.L. Watson; col. 30.i.1958; Millstream Spring (Millstream Station), W.A.; 21°39′S, 117°03′E.

Family Petaluridae

Petalura hesperia Watson, 1958, *Proc. R. ent. Soc. Lond.* (B) **27:** 116-118. Holotype, ♂, pinned, WAM 58-3. J.A.L. Watson; col. 1.xii.1957; Karragullen, 1¾ miles (3 km) SW of, W.A.; 32°05′S, 116°05′E.

Family Protoneuridae

Eurysticata coolawanyah Watson, 1969, *Aust. J. Zool.* **17:** 83-87. Holotype, ♂, pinned, WAM 69-762. J.A.L. Watson; col. 6.ii.1958; Deep Reach [Pool] (Fortescue River, Millstream Station), W.A.; 21°37′S, 117°06′E.

Notosticta solida pilbara Watson, 1969, *Aust. J. Zool.* **17**: 80-82. Holotype, ♂, pinned, WAM 69-761. J.A.L. Watson; col. 26.i.-6.ii.1958, Millstream Spring (Millstream Station), W.A.; 21°39′S, 117°03′E.

ORDER BLATTODEA

Family Blaberidae

Calolampra submarginalis Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 32. Holotype, ♂, pinned, WAM 46-274. P.J. Barwise; reg. 29.iv.1946; West Kimberley, W.A.; about 17°S, 124°E.

Paratemnopteryx atra Princis, 1963, *J.R. Soc. West. Aust.* **46**: 11-12. Holotype, ♂, pinned, WAM 63-355. A.M. Douglas; col. 10.x.1957; Marble Bar, W.A.; 21°07′S, 119°41′E.

Shawella douglasi Princis, 1963, *J.R. Soc. West. Aust.* **46**: 11. Holotype, ♂, pinned, WAM 63-354. A.M. Douglas; col. ix.1958; Jurien Bay, W.A.; 30°17′S, 115°00′E.

Family Blattellidae

Trogloblatella nullarborensis Mackerras, 1967, *J. Aust. ent. Soc.* **6**: 39-42. Holotype, ♂, pinned, WAM 68-88. D.C. and J.W.J. Lowry; col. 27.ix.1966; Abrakurrie Cave (about 24 miles [39 km] WNW of Eucla), W.A.; 31°21′S, 128°48′E.

Family Blattidae

Anamesia angusta Mackerras, 1966, *Aust. J. Zool.* **14**: 350-351. Holotype, ♂, pinned, WAM 63-316. A.M. Douglas; col. xi.1960; Bamboo Creek, W.A.; 20°56′S, 120°13′E.

Anamesia douglasi Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 11. Holotype, ♀, pinned, WAM 43-1736. A.M. Douglas; col. 1943; Clampton, W.A.; 29°57′S, 119°06′E.

Anamesia serrata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 12. Holotype, ♀ [not ♂], pinned, WAM 24-968. H.W.B. Talbot; reg. xii.1924; Mt Wynne, W.A.; 18°06′S, 124°27′E.

Anamesia uniformis Mackerras, 1966, *Aust. J. Zool.* **14**: 349-350. Holotype, ♂, pinned, WAM 63-305. A.M. Douglas; col. 25.vii.1963; North West Cape, W.A.; 21°45′S, 114°10′E.

Euzosteria callosa Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blatteriae, *Acta Univ. lund.* (2)**50**(13): 29. Holotype, ♀, pinned, WAM 43-1375. R. Randall; reg. 13.xii.1943; Jitarning, W.A.; 32°47′S, 118°00′E.

Lamproblatta picea Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 8-9. Holotype, ♂, pinned, WAM 32-1542. O. Smith; reg. 10.viii.1932; Perenjori, W.A.; 29°26′S, 116°17′E.

Lamproblatta sublobata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 8. Holotype, ♀, pinned, WAM 48-585. F. Lambert; col. iii.1948; Wittenoom Gorge, W.A.; 22°14′S, 118°20′E.

Lamproblatta zonata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 9-10. Holotype, ♀, pinned, WAM 49-904. K.G. Buller; col. 15.viii.1949; Murchison, W.A.; 27°39′S, 114°14′E.

Megazosteria shawi Mackerras, 1966, *Aust. J. Zool.* **14:** 313-314. Holotype, ♂, pinned, WAM 66-385. R.P. McMillan; col. 19.vii.1958; Millstream, W.A.; 21°35′S, 117°04′E.

Melanozosteria lobipennis Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 13-14. Holotype, ♂, pinned, WAM 19-65. A. Caldwell; reg. 10.ii.1919; Badjebup, W.A.; 33°38′S, 117°54′E.

Platyzosteria denticulata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50(13)**: 20. Holotype, ♀, pinned, WAM 52-172 [not 57-472]. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41′S, 120°11′E.

Platyzosteria fulva Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 27. Holotype, ♀, pinned, WAM 52-184. col. 1925; Darlington, W.A.; 31°55′S, 116°04′E.

Platyzosteria (Leptozosteria) latissima Mackerras, 1967, *Aust. J. Zool.* **15:** 1293-1295. Holotype, ♂, pinned, WAM 65-430. C. Snell; col. 18.iii.1965; Turee Creek, 2 miles [3 km] SE of, W.A.; 23°37′S, 118°39′E.

Platyzosteria (Leptozosteria) subaquila Mackerras, 1967, *Aust. J. Zool.* **15:** 1290-1292. Holotype, ♂, pinned, WAM 64-175. A.M. Douglas; col. 9.ix.1964; Halls Creek, 48 miles [77 km] N of, W.A.; 18°16′S, 127°47′E.

Platyzosteria marginalis Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 20-21. Holotype, ♀, pinned, WAM 27-182. H. Poole; reg. ii.1927; Mullewa, W.A.; 28°32′S, 115°30′E.

Playzosteria (Melanozosteria) aculeata Mackerras, 1968, *Aust. J. Zool.* **16**: 305-306. Holotype, ♂, pinned, WAM 55-4019. A.M. Douglas; col. vi.1955; Rough Range, W.A.; 22°26′S, 114°04′E.

Platyzosteria (Melanzosteria) barrominensis Mackerras, 1968, *Aust. J. Zool.* **16**: 327. Holotype, ♂, pinned, WAM 68-296. A.M. Douglas; col. xi.1963; Barromine, 150 miles [241 km] E of Marble Bar, W.A.; 21°11′S, 119°44′E.

Platyzosteria (Melanozosteria) flavofusca Mackerras, 1968, *Aust. J. Zool.* **16**: 322-325. Holotype, ♂, pinned, WAM 68-295. A.M. Douglas; col. 25. vii.1963; North West Cape, W.A.; 21°45′S, 114°10′E.

Platyzosteria (Melanozosteria) lentiginosa Mackerras, 1968, *Aust. J. Zool.* **16**: 325-326. Holotype, ♂, pinned, WAM 64-123. A.M. Douglas; col. 4.ix.1964; Halls Creek, W.A.; 18°16′S, 127°46′E.

Platyzosteria (Melanozosteria) minima Mackerras, 1968, *Aust. J. Zool.* **16**: 317-318. Holotype, ♂, pinned, WAM 68-294. A.M. Douglas; col. 1959; Dorre I., W.A.; 25°07′S, 113°08′E.

Platyzosteria (Melanozosteria) minor Mackerras, 1968, *Aust. J. Zool.* **16**: 316-317. Holotype, ♂, pinned, WAM 68-293. A.M. Douglas; col. 25.viii.1963; North West Cape, W.A.; 21°45′S, 114°10′E.

Platyzosteria (Melanozosteria) obesa Mackerras, 1968, *Aust. J. Zool.* **16**: 302-304. Holotype, ♂, pinned, WAM 66-16. A.M. Douglas and L.N. [not M.] McKenna; col. 21-23.i.1966; Dedari, W.A.; 31°05′S, 120°42′E.

Platyzosteria (Platyzosteria) albopilosa Mackerras, 1967, *Aust. J. Zool.* **15**: 1280-1282. Holotype, ♂, pinned, WAM 64-663 [= 64-664 in description]. A.M. Douglas; col. 8.x.1964; Cocklebiddy, 7 miles [11 km] SE of, W.A.; 32°04′S, 126°11′E.

Platyzosteria polita Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 18. Holotype, ♂, pinned, WAM 52-157. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41′S, 120°11′E.

Platyzosteria shelfordi Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 22. Holotype, ♂, pinned, WAM 4381. Michaelsen and Hartmeyer Expd.; col. 1905; Murchison District, W.A.; about 27°S, 115°E.

Platyzosteria similis Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 21-22. Holotype, ♂, pinned, WAM 52-173. K.G. Buller; reg. 4.ii.1952; Kundip, W.A.; 33°41′S, 120°11′E.

Platyzosteria tibialis Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 24. Holotype, ♀, pinned, WAM 34-1645. M. Dorotich; reg. 4.v.1934; Burngup, W.A.; 33°01′S, 118°41′E.

Platyzosteria tricaudata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 23-24. Holotype, ♂, pinned, WAM 29-481. L. Glauert; col. iv-v.1929; Landor Station W.A.; 25°08′S, 116°54′E.

Polyzosteria flavomaculosa Mackerras, 1965, *Aust. J. Zool.* **13**: 867-868. Holotype, ♂, pinned, WAM 4520. D. Lund; col. 11.ix.1911; Williams, W.A.; 33°01′S, 116°52′E.

Polyzosteria fulgens Mackerras, 1965, *Aust. J. Zool.* **13**: 874-876. Holotype, ♂, pinned, WAM 24-1. W.A. Poole; col. 9.i.1924; Kalmia (Upper Swan) W.A.; 31°46′S, 116°01′E.

Pseudolampra venusta Mackerras, 1966, *Aust. J. Zool.* **14**: 361-362. Holotype, ♂, pinned, WAM 64-536. A.M. Douglas; col. 8.x.1964; Cocklebiddy, 7 miles [11 km] SE of, W.A.; 34°04′S, 126°11′E.

Pseudozosteria punctata Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 10. Holotype, ♀, pinned, WAM 24-302. R. Warren; reg. 4.iv.1924; Laverton, W.A.; 28°38′S, 122°24′E.

Zonioploca fullerae Mackerras, 1965, *Aust. J. Zool.* **13**: 910-911. Holotype, ♂, pinned, WAM 65-723. R.P. McMillan; col. 24.i.1968; Southern Cross, W.A.; 31°13′S, 119°19′E.

Family Polyphagidae

Tivia australica Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 3-4. Holotype, ♂, pinned, WAM 27-1541. P. Hopegood; reg. 27.x.1927; Lake Violet, W.A.; 26°32′S, 120°40′E.

Family Pseudomorphidae

Franwalkeria glauerti Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.*

(2)**50**(13): 34. Holotype, ♂, pinned, WAM 32-2797. E. Buggenthin; reg. 20.xii.1914; Merredin, W.A.; 31°29′S, 118°16′E.

Hemsaussurea pedestris Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 43-44. Holotype, ♂, pinned, WAM 5139. W.B. Alexander; reg. 12.viii.1912; Mt Lawley, W.A.; 31°56′S, 115°52′E.

Robshelfordia simplex Princis, 1954, in Report from Professor T. Gislén's Expedition to Australia in 1951-1952, 10, Australian Blattariae, *Acta Univ. lund.* (2)**50**(13): 38-39. Holotype, ♂, pinned, WAM 43-377. L. Glauert; col. 1-7.v.1943; Wamenusking, W.A.; 32°07′S, 117°35′E.

ORDER ISOPTERA

Family Termitidae

Eutermes occasus Silvestri, 1909, in vol. 2, pp. 307-308, *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 3, in alcohol, WAM 64-66a to 64-66c. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 32°22′S, 116°09′E.

Microcerotermes distinctus Silvestri, 1909, in vol. 2, pp. 303-304, *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 12, in alcohol, WAM 64-65a to 64-65l. Michaelsen and Hartmeyer Expd.; col. 2.vii.1905; Station 94, Coolgardie, W.A.; 30°57′S, 121°09′E.

Microtermes kraepelini Silvestri, 1909, in vol. 2, p.298. *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 4, in alcohol, WAM 64-63a to 64-63d. Michaelsen and Hartmeyer Expd.; col. 9-10.vii.1905; Station 101, Mundaring Weir, W.A.; 31°57′S, 116°10′E.

Monodontermes hartmeyeri Silvestri, 1909, in vol. 2, pp. 299-300, *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, in alcohol, WAM 64-64. Michaelsen and Hartmeyer Expd.; col. 9-10.vii.1905; Station 76, Day Dawn, W.A.; 27°28′S, 117°52′E.

ORDER DERMAPTERA

Family Labiduridae

Gonolabis michaelseni Burr, 1908, in vol. 2, pp. 73-76, *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, pinned, WAM 4364. Michaelsen and Hartmeyer Expd.; col. 26.viii.1905; Station 137, Collie, W.A.; 33°22′S, 116°09′E.

Gonolabis woodwardi Burr, 1908, in vol. 2, pp. 76-79, *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, ♂ and ♀, pinned, WAM 4365 and 4366. Michaelsen and Hartmeyer Expd.; col. 31.v.1905; Station 152, Gooseberry Hill, W.A.; 31°57′S, 116°03′E.

ORDER EMBIOPTERA

Family Oligotomidae

Oligotoma glauerti Tillyard, 1923, *J.R. Soc. West. Aust.* **9**: 64-65. Holotype, ♂, microscope slide, WAM 22-355. L. Glauert; col. 26.v. 1922; Milly Milly Station, W.A.; 26°04′S, 116°41′E.

ORDER HEMIPTERA

Family Achilidae

Bunduica rubrovenosa Jacobi, 1909, in vol. 2, p. 345. *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 4255. Michaelsen and Hartmeyer Expd.; col. 19.viii.1905; Station 162, Torbay, W.A.; 35°02′S, 117°38′E.

Family Cicadidae

Macrotristria douglasi Burns, 1964, *Mem. natn. Mus. Melb.* no. 26: 105-106. Holotype, ♂, pinned, WAM 64-71. A.M. Douglas; col. 12.x.1955; Wotjulum, W.A.; 16°07′S, 123°43′E.

Family Eurymelidae

Eurymeloides lenis Jacobi, 1909, in vol. 2, pp. 341. *Die Fauna Südwest-Australiaens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♀, pinned, WAM 4252. Michaelson and Hartmeyer Expd.; col. 20.vii.1905; Station 99, Lion Mill [=Mt Helena], W.A.; 31°53′S, 116°12′E.

Ipoella douglasi Evans, 1977, *Rec. Aust. Mus.* **31**: 87. Holotype, ♂, carded, WAM 1.75 (=78-597). H. Douglas; reg. 24.viii.1978; Three Rivers Station, W.A.; 25°08′S, 119°09′E.

Family Nepidae

Ranatra occidentalis Lansbury, 1972, *Trans R. ent. Soc. Lond.* **124**: 326-329. Holotype, ♂, pinned, WAM 66-435. R.P. McMillan; col. 23.vii.1955; Millstream, W.A.; 21°35′S, 117°04′E.

Family Notonectidae

Anisops nabilla Lansbury, 1969, *J. nat. Hist.* **3**: 451-452. Holotype, ♂, pinned, WAM 66-522. R.P. McMillan; col. 12.vii.1958; Marillana [not Marilana], 14 miles [22 km] W of, W.A.; 22°38′S, 119°34′E.

Family Pentatomidae

Cuspiona cigniterrae Gross, 1975, *Rec. S. Aust. Mus.* **17**: 132-134. Holotype, ♀, pinned, WAM 70-8. J. Dell; col. 3.iv.1963; Kalamunda, W.A.; 31°58′S, 116°03′E.

ORDER NEUROPTERA

Family Mantispidae

Mantispa tillyardi Esben-Petersen, 1915, *Proc. Linn. Soc. N.S.W.* **39**: 642-643. Syntype, ♂, pinned, WAM 7211. J. Gascoyne; reg. 20.iv.1913; Cuballing, W.A.; 32°49′S, 117°11′E.

Family Myrmeleontidae

Dendroleon lambda Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 52-53. Holotype, pinned, WAM 6601. I. Handley; col. i.1912; Harvey, W.A.; 33°04′S, 115°54′E.

Distoleon nigrosignatus Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 64-65. Syntype, ♀, pinned, WAM 6898. O. Lipfert; col. 2.iii.1913 [not W.B. Alexander, 12.iii.1913]; Subiaco, W.A.; 31°57′S, 115°49′E.

Pericylystus aureolatus Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 50-52. Holotype, pinned, WAM 6972. S. Lundy; reg. 25.iii.1913; Cunderdin, W.A.; 31°39′S, 117°14′E.

Protoplectron longitudinale Tillyard, 1916, *Proc. Linn. Soc. N.S.W.* **41**: 48-49. Holotype, pinned, H22 (=WAM 78-610). G.H. Hardy; reg. 24.viii.1978. [Locality unknown.]

Family Nemopteridae

Chasmoptera mathewsi Koch, 1967, *Proc. R. ent. Soc. Lond.* (B) **36** (9-10): 144. Holotype, ♂, pinned, WAM 35-435. H. Berry; reg. 12.xi.1934; Peron Peninsula (Shark Bay), W.A.; 25°50′S, 113°35′E.

Chasmoptera superba Tillyard, 1925, *J.R. Soc. West. Aust.* **12**: 2-4. Holotype, ♂, pinned, WAM 14-1386. C. Hamilton; reg. 19.xii.1914; Cunderdin, W.A.; 31°39′S, 117°14′E.

Family Psychopsidae

Psychopsis maculipennis Tillyard, 1925, *Proc. Linn. Soc. N.S.W.* **50:** 389-390. Holotype, ♂, pinned, WAM 20-130. A. Hall; reg. 1.vi.1920; Roebourne, W.A.; 20°47′S, 117°09′E.

ORDER COLEOPTERA

Family Buprestidae

Astraeus (Astraeus) smythi Barker, 1975, *Trans. R. Soc. S. Aust.* **99:** 118-119. Holotype, ♂, pinned, WAM 73-55. E. Smith; reg. xi.1956; Maryborough, Qld; 25°32′S, 152°42′E.

Astreaus (Astraeus) watsoni Barker, 1975, *Trans. R. Soc. S. Aust.* **99:** 134. Holotype, ♀, pinned, WAM 71-1761. R.P. McMillan and J.A.L. Watson; col. 16.xii.1957; Borden, W.A.; 34°04′S, 118°16′E.

Astraeus (Depollus) dedariensis Barker, 1975, *Trans . R. Soc. S. Aust.* **99:** 113-114. Holotype, ♂, pinned, WAM 71-1779. H.W. Brown; reg. 12.x.1971; Dedari, W.A.; 31°05′S, 120°42′E.

Family Cerambycidae

Ancita longicornis McKeown, 1948, *Rec. Aust. Mus.* **22:** 58-59. Holotype, ♂, carded, WAM 37-313. D. Wardell-Johnston; reg. 26.i.1937; Edjudina, W.A.; 29°49′S, 122°21′E.

Bethelium inconspicuum McKeown, 1948, *Rec. Aust. Mus.* **22:** 53. Holotype, carded, WAM 33-2392. A.K. Brown; reg. 1.xi.1933; Salmon Gums, W.A.; 32°59′S, 121°39′E.

Coptocercus sannio McKeown, 1948, *Rec. Aust. Mus.* **22:** 52-53. Holotype, pinned, WAM 38-2326. J. Daniels; reg. 26.x.1938; Hopetoun, W.A.; 33°57′S, 120°07′E.

Corrhenes glauerti McKeown, 1948, *Rec. Aust. Mus.* **22:** 62-63. Holotype, pinned, WAM 30-886. F. Jones; reg. 2.xii.1930; Hampton Hill Station (Bulong), W.A.; 30°45′S, 121°46′E.

Didymocantha picta McKeown, 1948, *Rec. Aust. Mus.* **22:** 53. Holotype, ♀, pinned, WAM 37-1737. D. Wardell-Johnson; reg. 6.iv.1937; Edjudina, W.A.; 29°49′S, 122°21′E.

Disterna forrestensis McKeown, 1948, *Rec. Aust. Mus.* **22:** 59. Holotype, carded, WAM 15-369. J.A. Dobson; reg. 29.iv.1915; Forrest River District, W.A.; 15°11′S, 127°50′E.

Emecia fulva McKeown, 1948, *Rec. Aust. Mus.* **22:** 57-58. Holotype, ♀, carded, WAM 36-4828. A.M. Douglas; reg. 24.xi.1936; Kukerin, W.A.; 33°12′S, 118°05′E.

Phacodes singularis McKeown, 1948, *Rec. Aust. Mus.* **22:** 51. Holotype, pinned, WAM 37-4588. A.M. Douglas; col. xii.1937; Narrogin, W.A.; 32°56′S, 117°11′E.

Uracanthus dentiapicalis McKeown, 1948, *Rec. Aust. Mus.* **22:** 55-57. Holotype, pinned, WAM 41-740. S. Gooch; reg. 13.vi.1941; Wandagee [not Wandadgee] Station, W.A.; 23°46′S, 114°33′E.

Uracanthus fusostriatus McKeown, 1948, *Rec. Aust. Mus.* **22:** 55. Holotype, ♂, carded, WAM 32-242. A.G. McKenna; reg. 2.ii.1932; Maylands, W.A.; 31°56′S, 115°53′E.

Uracanthus multilineatus McKeown, 1948, *Rec. Aust. Mus.* **22:** 54-55. Holotype, pinned, WAM 27-1497. P. Hopegood; reg. 27.x.1927; Lake Violet Station, W.A.; 26°32′S, 120°40′E.

Family Curculionidae

Catasarcus aerosus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 390-391. Holotype, ♂, pinned, WAM 70-359. E.B. Britton and A.M. Douglas; col. 14.xii.1961; Bolgart, W.A.; 31°16′S, 116°30′E.

Catasarcus albipectus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 425-426. Holotype, ♂, pinned, WAM 49-1090. B. York [now B.Y. Main]; col. 1.ix.1949, Murchison River [mouth of], W.A.; 27°42′S, 114°12′E.

Catasarcus aspergetus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 383-385. Holotype, ♂, pinned, WAM 70-356. F.H.U. Baker; col. ix.1959; Wialki, W.A.; 30°29′S, 118°07′E.

Catasarcus asphaltinus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 407-411. Holotype, ♂, pinned, WAM 70-632. E.C. Chapman; col. 1953; Fremantle, W.A.; 32°03′S, 115°44′E.

Catasarcus azureipes Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 385-386. Holotype, ♂, pinned, WAM 51-2105. A.M. Douglas; reg. 17.xii.1951; Lake Grace, W.A.; 33°06′S, 118°28′E.

Catasarcus bakeri Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 381-382. Holotype, ♀, pinned, WAM 70-354. F.H.U. Baker; col. 23.iv.1955; Esperance, W.A.; 33°52′S, 121°54′E.

Catasarcus bicolor Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 427-428. Holotype, ♂, pinned, WAM 70-365. F.H.U. Baker; col. 17.ix.1958; Lynton, W.A.; 28°12′S, 114°18′E.

Catasarcus coruscus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 414-417. Holotype, ♂, pinned, WAM 45-771. L. Glauert; reg. 26.xi.1945; Yallingup, W.A.; 33°39′S, 115°01′E.

Catasarcus cygnensis Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 412-414. Holotype, ♂, pinned, WAM 70-363. F.H.U. Baker; col. 5.x.1965; Applecross, W.A.; 31°57′S, 115°51′E.

Catasarcus frontalis Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 402-404. Holotype, ♂, pinned, WAM 70-360. H.F. Broadbent; col. 1952?; Toodyay, W.A.; 31°33′S, 116°28′E.

Catasarcus laevior Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 417. Holotype, ♂, pinned, WAM 70-364. H.F. Broadbent; col. 24.x.1952; Manjimup, W.A.; 34°15′S, 116°09′E.

Castasarcus murex Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 441-443. Holotype, ♂, pinned, WAM 19-206. S.J. Clark; reg. xi.1919, Bridgetown, W.A.; 33°58′S, 116°08′E.

Catasarcus obesus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 382-383. Holotype, ♂, pinned, WAM 70-355. F.H.U. Baker; col. 20.ix.1954; Lake Varley, W.A.; 32°48′S, 119°31′E.

Catasarcus pallidiventris Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 406-407. Holotype, ♀, pinned, WAM 70-361. F.H.U. Baker; col. 8.xii.1962; Hill River, W.A.; 30°17′S, 115°19′E.

Catasarcus ustulatus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 388-389. Holotype, ♀, pinned, WAM 70-358. J.A.L. Watson; col. 19.iv.1957; 161 mile peg [259 km] along Augusta Road, W.A.; 33°47′S, 115°08′E.

Catasarcus varus Thompson, 1968, *Bull. Br. Mus. nat. Hist.* (Ent.) **22**(8): 386-387. Holotype, ♂, pinned, WAM 70-357. F.H.U. Baker; col. 5.v.1960; Esperance, W.A.; 33°52′S, 121°54′E.

Notonophes gascoynensis Baker, 1972, *J. Aust. ent. Soc.* **11**: 123-125. Holotype, ♂, pinned, WAM 67-71. F.H.U. Baker; col. 22.viii.1962; Wooramel River (Gascoyne District), W.A.; 25°45′S, 114°16′E.

Notonophes hirsutina Baker, 1972, *J. Aust. ent. Soc.* **11**: 125-127. Holotype, ♂, pinned, WAM 69-1638. F.H.U. Baker; col. 4.ix.1967, Winning Station (Lyndon District), W.A.; 23°09′S, 114°32′E.

Family Dytiscidae

Hypodes giuliani Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 74. Holotype, ♂, carded, WAM 70-3366. D.D. Giuliani; col. 1.ix.1969; Beverley Springs, W.A.; 16°35′S, 125°29′E.

Hypodes josepheni Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 75-76. Holotype, ♂, carded, WAM 70-3367. D.D. Giuliani; col. ix.1969; Beverley Springs, W.A.; 16°35′S, 125°29′E.

Hypodes tambreyi Watts, 1978, *Aust. J. Zool.* (Suppl.) no. 57: 70-73. Holotype, ♂, pinned, WAM 69-1351. R.P. McMillan; col. 4.viii.1958; Tambrey, W.A.; 21°38′S, 117°36′E.

Family Scarabaeidae

Automolus phoxus Britton, 1957, *A revision of the Australian chafers* **1**: 97-98; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 8229. S. Lundy; col. ix-x.1913; Cunderdin, W.A.; 31°39′S, 117°14′E.

Cryptoryctes psilus Carne, 1957, *A systematic revision of the Australian Dynastinae,* pp.156-157; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 39-340 [= 39-339 in description]. A.M. Douglas; reg. ii.1939; Mt Jackson, W.A.; 30°12′S, 119°06′E.

Cryptoryctes wingarus Carne, 1957, *A systematic revision of the Australian Dynastinae,* p.161; Melbourne: CSIRO. Holotype, ♂, pinned, "J.R.11-97" (= WAM 78-599). reg. 24.viii.1978. [Locality unknown, presumably in W.A.]

Epironastes abruptus Carne, 1957, *A systematic revision of the Australian Dynastinae,* p.127; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 43-565. A.K. Brown; col. 8.vii.1943; Salmon Gums, W.A.; 32°59′S, 121°39′E.

Epironastes nigrisetosus Carne, 1957, *A systematic revision of the Australian Dynastinae,* p. 126; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 48-2721. A.M. Douglas; reg. 11.xii.1948; Tarin Rock to Lake Grace, W.A.; 33°07′S, 118°14′E to 33°06′S, 118°28′E.

Haplopis rutila Britton, 1957, *A revision of the Australian chafers* **1**: 107; London: British Museum (Natural History). Holotype, ♂, carded, WAM 53-949. A.M. Douglas; reg. 18.v.1953; Chidlow, W.A.; 31°52′S, 116°16′E.

Maechidinus sculptilis Britton, 1957, *A revision of the Australian chafers* **1**: 78; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 15-889. W.B. Alexander; reg. 17.x.1915; Waddouring [Hill], W.A.; 30°57′S, 117°51′E.

Neodon glauerti Carne, 1957, *A systematic revision of the Australian Dynastinae,* pp.44-45; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 45-102. L.A.C. Dawson; reg. 27.ii.1945; Onslow, W.A.; 21°38′S, 115°07′E.

Neodon simplex Carne, 1957, *A systematic revision of the Australian Dynastinae,* pp.45-46; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 48-576. F. Lambert; reg. iii.1948; Wittenoom Gorge, W.A.; 22°17′S, 118°19′E.

Phyllotocus pelus Britton, 1957, *A revision of the Australian chafers* **1:** 46; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 36-4237. A.M. Douglas; reg. 4.xi.1936; Kukerin, W.A.; 33°12′S, 118°05′E.

Teinogenus annectens Carne, 1957, *A systematic revision of the Australian Dynastinae,* p.145; Melbourne: CSIRO. Holotype, ♂, pinned, WAM 32-2827. E. Buggenthin; reg. 20.xii.1932; Merredin, W.A.; 31°29′S, 118°16′E.

Termitophilus spadix Britton, 1957, *A revision of the Australian chafers* **1:** 126-127; London: British Museum (Natural History). Holotype, ♂, pinned, WAM 40-1537. L. Glauert; reg. 7.xi.1940; Calgardup, W.A.; 34°02′S, 115°00′E.

Tesserodon tenebroides Matthews, 1974, *Aust. J. Zool.* (Suppl.) no. 24: 84. Holotype, ♂, pinned, WAM 66-107. W.H. Butler; col. 26.v.1964; Barrow I., W.A.; 20°46′S, 115°24′E.

ORDER SIPHONAPTERA

Family Pygiopsyllidae

Glauertia scintilla Rothschild, 1936, *Novit. zool.* **40:** 9-13. Syntypes, 4 ♀, microscope slides, WAM 24-829a to 24-829c, and 28-2. F.R. Bradshaw; reg. 10.ix.1924; Tambellup, W.A.; 34°02′S, 117°38′E.

ORDER DIPTERA

Family Agromyzidae

Cerodontha (Cerodontha) augustensis Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 145-147. Holotype, ♀, pinned, WAM 78-553. K.A. Spencer; col. 20.xi.1975; Augusta, W.A.; 34°19′S, 115°09′E.

Liriomyza cassiniae Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 190-191. Holotype, ♂, pinned, WAM 78-554. K.A. Spencer; col. 2.xi.1975; Black Mountain, A.C.T.; 35°16′S, 149°06′E.

Liriomyza oleariana Spencer, 1977, *Spec. Publs West Aust. Mus.* no. 8: 205-206. Holotype, ♂, pinned, WAM 78-555. K.A. Spencer; col. 18.xi.1975; Busselton, 10 miles [16 km] S of, W.A.; 33°45′S, 115°09′E.

Liriomyza scaevolae Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 208-210. Holotype, ♂, pinned, WAM 78-556. K.A. Spencer; col. 30.ix.1975; Cape Leeuwin, W.A.; 34°22′S, 115°08′E.

Melanagromyza prodigiosa Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 52. Holotype, ♂, pinned, WAM 78-557. K.A. Spencer; col. 27.ix.1975; Eagle Bay, near Dunsborough, W.A. 33°33′S, 115°04′E.

Ophiomyia fera Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 83-84. Holotype, ♂, pinned, WAM 78-558. K.A. Spencer; col. 26.ix.1975; Lake Cooloongup, W.A.; 32°17′S, 115°47′E.

Phytomyza anthocercidis Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 223-224. Holotype, ♂, pinned, WAM 78-559. K.A. Spencer; col. 5.x.1975; Windy Harbour, S. of Northcliffe, W.A.; 34°38′S, 116°07′E.

Phytomyza ranunculicaulis Spencer, 1977, *Spec. Publs West. Aust. Mus.* no. 8: 230-231. Holotype, ♂, pinned, WAM 78-560. K.A. Spencer; col. 5.x.1975; Mt Chudalup, S. of Northcliffe, W.A.; 34°46′S, 116°05′E.

Family Apioceridae

Apiocera deforma Norris, 1936, *J.R. Soc. West. Aust.* **22**: 54-56. Holotype, ♂, pinned, WAM 36-1605. B.A. O'Connor; reg. 9.iv.1936; Gnangara, W.A.; 31°48′S, 115°42′E.

Apiocera englishae Paramonov, 1953, *Aust. J. Zool.* **1**: 511-512. Holotype, ♂, pinned, WAM 41-452. A.K. Brown; reg. 5.iii.1941; Salmon Gums, W.A.; 32°59′S, 121°39′E.

Apiocera flabellata Paramonov, 1953, *Aust. J. Zool.* **1**: 534-535. Holotype, ♂, pinned, WAM 48-3211. A.M. Douglas; reg. 31.xii.1948; Bullsbrook, W.A.; 31°40′S, 115°59′E. [Not in "Division of Entomology Museum, CSIRO, Canberra" as stated in description.]

Apiocera minor Norris, 1936, *J.R. Soc. West. Aust.* **22**: 61-62. Holotype, ♂, pinned, WAM 36-1625. D.C. Swan; col. xi., reg. iv.1936; Carlisle, W.A.; 31°59′S, 115°54′E.

Apiocera newmanni Norris, 1936, *J. Roy. Soc. West. Aust.* **22**: 62-63. Holotype, ♀, pinned, WAM 36-1620. B.A. O'Connor; col. xi.1930; Gnangara, W.A.; 31°48′S, 115°42′E.

Apiocera ordana Paramonov, 1953, *Aust. J. Zool.* **1**: 535-536. Holotype, ♂, pinned, WAM 51-1653. A.J. Drysdale, reg. 13.viii.1951; Ord River, W.A.; about 15°30′S, 128°30′E.

Apiocera pallida Norris, 1936, *J.R. Soc. West. Aust.* **22:** 59-60. Holotype, ♂, pinned, WAM 36-1608. K.R. Norris, col. 2.ii.1936; Carnac I., W.A.; 32°07′S, 115°40′E.

Apiocera pica Norris, 1936, *J.R. Soc. West. Aust.* **22:** 56-57. Holotype, ♂, pinned, WAM 36-1590. B.A. O'Connor, col. xi.1930; Gnangara, W.A.; 31°48′S, 115°42′E.

Apiocera tonnoiri Norris, 1936, *J.R. Soc. West. Aust.* **22:** 57-59. Holotype, ♂, pinned, WAM 36-1599. K.R. Norris; col. 9.ii.1936; Fremantle, W.A.; 32°03′S, 115°44′E.

Neorhaphiomidas hardyi Norris, 1936, *J.R. Soc. West. Aust.* **22:** 64-66. Holotype, ♂, pinned, WAM 36-1635. K.R. Norris; col. 9.ii.1936; Fremantle, W.A.; 32°03′S, 115°44′E.

Neorhaphiomydas pallida Paramonov, 1953, *Aust. J. Zool.* **1:** 531. Holotype, ♀, pinned, WAM 36-5567. A.M. Douglas; reg. 9.xii.1936; Wanneroo, W.A.; 31°45′S, 115°48′E.

Neorhaphiomidas pinguis Norris, 1936, *J.R. Soc. West. Aust.* **22:** 66-68. Holotype, ♂, pinned, WAM 36-1641. K.R. Norris; col. 23.ii.1936; Rottnest I., W.A.; 32°00′S, 115°30′E.

Neorhaphiomydas villosa Paramonov, 1953, *Aust. J. Zool.* **1:** 531-532. Holotype, ♂, pinned, WAM 35-3436. A.M. Douglas; reg. 15.xii.1935; Midland, W.A.; 31°53′S, 116°00′E.

Family Chironomidae

Anatopynia dalyupensis Freeman, 1961, *Aust. J. Zool.* **9:** 624. Holotype, ♂, pinned, WAM 64-1. D.H. Edward; adult emerged 7.v.1958; Dalyup River. W.A.; 33°44′S, 121°34′E.

Lundstroemia parthenogenetica Freeman, 1961, *Aust. J. Zool.* **9:** 721. Holotype, ♀, pinned, WAM 64-4. D.H. Edward; adult emerged 19.viii.1958; Lake Gwelup, W.A.; 31°53′S, 115°38′E.

Polypedilum (Polypedilum) watsoni Freeman, 1961, *Aust. J. Zool.* **9:** 710. Holotype, ♂, pinned, WAM 64-3. J.A.L. Watson; col. 18.vii.1958; Millstream Station, W.A.; 21°35′S, 117°04′E.

Stenochironomus watsoni Freeman, 1961, *Aust. J. Zool.* **9:** 705-706. Holotype, ♂, pinned, WAM 64-2. J.A.L. Watson; col. 25.vii.1958; Millstream Station, W.A.; 21°35′S, 117°04′E.

Tanytarsus (Tanytarsus) barbitarsus Freeman, 1961, *Aust. J. Zool.* **9:** 722-723. Holotype, ♂, pinned, WAM 64-5. D.H. Edward; col. 5.iv.1958; Bremer Bay, W.A.; 34°23′S, 119°23′E.

Family Culicidae

Theobaldia atra Lee, 1944, *Proc. Linn. Soc. N.S.W.* **64:** 220-221. Holotype, ♀, pinned, WAM 45-150. P.N. Forte; col. 16.xi.1943; Perth, W.A.; 31°57′S, 115°51′E.

Family Mydaidae

Diochlistus paragracilis Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8:** 134. Holotype, ♂, pinned, WAM 48-2943. A.M. Douglas; reg. 24.xii.1948; Kukerin, W.A.; 33°12′S, 118°05′E.

Miltinus atripennis Paramonov, 1955, *Ann. Mag. nat. Hist.* (12) **8:** 134. Holotype, ♂, pinned, WAM 48-2942. A.M. Douglas; reg. 24.xii.1948; Kukerin, W.A.; 33°12′S, 118°05′E.

Miltinus cinctus Paramonov, 1955, *Ann. Mag. nat. Hist.* (12)**8:** 135. Syntypes, ♂ and ♀, pinned, WAM 51-2145 and 48-2944. A.M. Douglas; reg. 17.xii.1951; Lake Grace, W.A.; 33°06′S, 118°28′E, and A.M. Douglas; reg. 24.xii.1948; Kukerin, W.A.; 32°12′S, 118°05′E.

Miltinus confrater Paramonov, 1955, *Ann. Mag. nat. Hist.* (12)**8:** 134. Holotype, ♂, pinned, WAM 49-2145. K.G. Buller; reg. 28.xi.1949; Jandakot, W.A.; 32°07′S, 115°50′E.

Miltinus mackerrasi Norris, 1937, *J.R. Soc. West. Aust.* **23:** 46-48. Holotype, ♂, pinned, WAM 37-2375. K.R. Norris; reg. 8.vi.1937; Crawley, W.A.; 31°57′S, 115°51′E.

Family Nemestrinidae

Trichophthalma glauerti Paramonov, 1953, *Aust. J. Zool.* **1:** 286-287. Holotype, ♂, pinned, WAM 42-708. L. Glauert; reg. 30.xi.1942; Yallingup, W.A.; 33°39′S, 115°01′E.

Family Pyrgotidae

Adapsona fulva Paramonov, 1958, *Aust. J. Zool.* **6:** 107. Holotype, ♀, pinned, WAM 78-607 [not 41-1151]. reg. 24.viii.1978. Brookton (?), W.A.; 32°22′S, 117°00′E(?).

Family Tipulidae

Leptotarsus (Leptotarsus) kalamundensis Dobrotworsky, 1972, *Aust. J. Zool.*

(Suppl.) no. **16:** 26—27. Holotype, ♀, pinned, WAM 65-159. R.P. McMillan; col. 16.iv. 1960; Kalamunda, W.A.; 31°58′S, 116°03′E.

ORDER TRICHOPTERA

Family Leptoceridae

Triplectides delicatula Ulmer, 1908, in vol. 2, pp.27-29, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2 ♂, pinned, WAM 7086 and 7086a. Michaelsen and Hartmeyer Expd.; col. 7.x.1905, Station 139, Brunswick, W.A.; 33°15′S, 115°50′E.

Triplectides flava Ulmer, 1908, in vol. 2, pp.29-30, *Die Fauna Südwest- Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 7087. Michaelson and Hartmeyer Expd.; col. 23-25.ix.1905; Station 131, Serpentine, W.A.; 32°22′S, 115°58′E.

Family Philopotamidae

Dolophilus michaelseni Ulmer, 1908, in vol. 2, pp. 36-37, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntype, ♂, pinned, WAM 7088. Michaelsen and Hartmeyer Expd.; col. 7.x.1905; Station 139, Brunswick, W.A.; 33°15′S, 115°50′E.

ORDER LEPIDOPTERA

Family Pyralidae

Hednota koojanensis Koch, 1966, *J.R. Soc. West. Aust.* **49:** 110-111. Holotype, ♂, pinned, and genitalia on microscope slide, WAM 63-441 and 66-441a. L.E. Koch; col. 24.iii.1961; Koojan, W.A.; 30°48′S, 116°01′E.

Family Geometridae

Amelora fucosa Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44:** 307-308. Holotype, ♂, pinned, WAM 7208. J. Burnside; reg. 20.iv.1913; Perth, W.A.; 31°57′S, 115°51′E.

Angelia melancroca Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44:** 300. Holotype, ♂, pinned, WAM 7320. Burnside; reg. 28.v. 1913; Perth, W.A.; 31°57′S, 115°51′E.

Chlenias basichorda Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44:** 403. Holotype, ♂, pinned, and genitalia on microscope slide, WAM 7433 and 7433a. W.B. Alexander; col. 17.vi.1913; Claremont, W.A.; 31°59′S, 115°47′E.

Chlenias macrochorda Turner, 1919, *Proc. Linn. Soc. N.S.W.* **44:** 403-404. Holotype, ♀, pinned, and genitalia on microscope slide, WAM 6318 and 6318a. W.B. Alexander; col. 26.iv.1912; Claremont, W.A.; 31°59′S, 115°47′E.

Family Notodontidae

Antimima cryptica Turner, 1917, *Proc. R. Soc. Qd* **29:** 73. Holotype, ♀, pinned, WAM 4729. A. Ventris; reg. 3.iv.1911; Quindalup, W.A.; 33°38′S, 115°09′E.

Discophlebia lipauges Turner, 1917, *Proc. R. Soc. Qd* **29:** 74. Holotype, ♂, pinned, WAM 7300. W.R.V. Wing; reg. 22.v.1913; Nannup, W.A.; 33°59′S, 115°45′E.

Pheraspis symmetra Turner, 1917, *Proc. R. Soc. Qd* **29:** 73-74. Holotype, ♂, pinned, WAM 7457. Thorpe; reg. 26.vi.1913; Derby, W.A.; 17°19′S, 123°38′E.

ORDER HYMENOPTERA

Family Anthophoridae

Allodapula occidentalis Michener and Syed, 1962, *J. ent. Soc. Qd* **1:** 41. Holotype, ♂, pinned, WAM 65-732. R.P. McMillan; col. 2.vii. 1958; Tambrey, W.A.; 21°38′S, 117°36′E.

Crocisa albifrons Rayment, 1931, *J.R. Soc. West. Aust.* **17:** 172-173. Holotype, ♀, pinned, WAM 29-883. L. Glauert; col. iv-v.1929; Landor Station, W.A.; 25°08′S, 116°54′E.

Exoneura pictifrons Alfken, 1907, in vol. 1, pp.260-261, *Die Fauna Südwest Australiens;* ed. W. Michaelsen and R. Hartmeyer. Syntypes, 2, pinned, WAM 4796 and 4797. Michaelsen and Hartmeyer Expd.; col. 21.ix.1905; Station 127-128. Mundijong, W.A.; 32°18′S, 115°59′E.

Thyreus sicarius Lieftinck, 1962, *Zool. Verh. Leiden* no. 53: 200-203. Holotype, ♀, pinned, WAM 64-39. A.M. Douglas; reg. 6.ii.1964. W.A. [Exact locality unknown.]

Family Colletidae

Brachyhesma (Brachyhesma) dedari Exley, 1968, *Aust. J. Zool.* **16:** 186-188. Holotype, ♂, pinned, WAM 54-736. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16′S, 119°51′E and 31°05′S, 120°42′E.

Brachyhesma (Microhesma) dichaeta Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 287-288. Holotype, ♀, pinned, WAM 33-662. L. Glauert; col. 26.ii.-1.iii.1933; Rottnest I., W.A.; 32°00′S, 115°30′E.

Ctenocolletes ordensis Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 267-268. Holotype, ♂, pinned, WAM 65-728. A.M. Douglas; col. 3.x.1955; Wotjulum, W.A.; 16°07′S, 123°43′E.

Dasyhesma robusta Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 284-285. Holotype, ♀, pinned, WAM 54-127. A.M. Douglas; col. 6.i.1954; Pearce, W.A.; 31°40′S, 116°01′E.

Euryglossa inconspicua lutea Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 204. Holotype, ♀, pinned (abdomen missing), WAM 32-563. L. Glauert; reg. 7.iii.1932; Rottnest I., W.A.; 32°00′S, 115°30′E.

Euryglossa (Euryglossa) calaina Exley, 1976, *Aust. J. Zool.* (Suppl.) no. **41:** 9-10. Holotype, ♀, pinned, WAM 54-1417. A.M. Douglas; col. 3.ii.1954; Cranbrook, W.A.; 34°18′S, 117°33′E.

Euryglossa (Xenohesma) clypearis Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 278. Holotype, ♀, pinned, WAM 44-559. L. Glauert; reg. 29.ix.1944; Broomehill, W.A.; 33°51′S, 117°38′E.

Euryglossa (Xenohesma) scutellaris Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 280-281. Holotype, ♀, pinned, WAM 31-1255. L. Glauert; col. 18.x.1931; Seabrook, W.A.; 31°40′S, 116°44′E.

Euryglossina (Euryglossina) douglasi Exley, 1968, *Aust. J. Zool.* **16:** 941-942. Holotype, ♀, carded, WAM 54-678. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16′S, 119°51′E and 31°05′S, 120°42′E.

Euryglossina microdonta Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 203. Holotype, ♀, carded, WAM 33-824. L. Glauert; col. 4-5.iii.1933; Rottnest I., W.A.; 32°00′S, 115°30′E.

Euryglossula carnarvonensis Exley, 1968, *Aust. J. Zool.* **16:** 204-206. Holotype, ♀, carded, WAM 67-1. A. Snell; col. 2.ix.1953; Carnarvon, W.A.; 24°53′S, 113°40′E.

Hesperocolletes douglasi Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 262-263. Holotype, ♂, pinned, WAM 38-2607. A.M. Douglas; col. 9-12.xi.1938; Rottnest I., W.A.; 32°00′S, 115°30′E.

Hylaeus (Hylaeteron) hemirhodus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 294-295. Holotype, ♀, pinned, WAM 65-731. A.M. Douglas; col. 12.x.1955; Wotjulum, W.A.; 16°07′S, 123°43′E.

Hylaeus (Prospisteron) albozebratus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 289-290. Holotype, ♂, pinned, WAM 65-729. A. Snell; col. 2.ix.1953; Carnarvon, W.A.; 24°53′S, 113°40′E.

Hylaeus (Prosopisteron) douglasi Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 290-291. Holotype, ♂, pinned, WAM 50-4447. A.M. Douglas; col. ix.1950?; Morawa, W.A.; 29°13′S, 116°00′E.

Hylaeus (Prosopisteron) simplex Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 291-292. Holotype, ♀, pinned, WAM 65-730. A.M. Douglas; col. 20.x.1947; Merredin, W.A.; 31°29′S, 118°16′E.

Leioproctus (Andrenopsis) douglasiellus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 259-260. Holotype, ♀, pinned, WAM 54-128. A.M. Douglas; col. 1.i.1954; Pearce, W.A.; 31°40′S, 116°01′E.

Leioproctus (Baecolletes) calcaratus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 257-258. Holotype, ♀, pinned, WAM 52-3071. A. Snell; reg. x.1952; Belele, W.A.; 26°22′S, 118°01′E.

Leioproctus (Colletopsis) contrarius Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 252. Holotype, ♀, pinned, WAM 54-55. A.M. Douglas; col. 31.xii.1953; Bullsbrook, W.A.; 31°40′S, 115°59′E.

Leioproctus (Glossurocolletes) xenoceratus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 254-255. Holotype, ♂, pinned, WAM 65-725. P.N. Forte; col. 10.xi.1940; Capel, W.A.; 33°33′S, 115°33′E.

Leioproctus (Leioproctus) megachalcoides Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 246-247. Holotype, ♀, pinned, WAM 65-724. L.J. Newman; col. ix; Mullewa, W.A.; 28°32′S, 115°30′E.

Leioproctus (Urocolletes) rhodurus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 253. Holotype, ♀, pinned, WAM 37-3797. A.M. Douglas; reg. 14.ii.1937; Midland, W.A.; 31°53′S, 116°00′E.

Melitribus glauerti Rayment, 1930, *Victorian Nat.* **47:** 3-9. Holotype, ♀, pinned, WAM 19-224. L.V. Nock; reg. 21.xi.1919; Yorkrakine, W.A.; 31°22′S, 117°35′E.

Meroglossa miranda Rayment, 1930, *Proc. R. Soc. Vict.* **43:** 45. Holotype, ♂, pinned, WAM 22-284. L. Glauert; reg. 24.vi.1922; Milly Milly Station, W.A.; 26°04′S, 116°41′E.

Neopasiphae simplicior Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 262. Holotype, ♂, pinned, WAM 65-726. R.P. McMillan; col. 16.x.1954; Cannington, W.A.; 32°01′S, 115°57′E.

Paracolletes submacrodontus Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 206-207. Holotype, ♂, pinned, WAM 33-528. L. Glauert; col. 18-19.ii.1933; Rottnest I., W.A.; 32°00′S, 115°30′E.

Trichocolletes (Callocolletes) pulcherrimus Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 265-266. Holotype, ♂, pinned, WAM 65-727. col. 1.xi.1935; Narrogin, W.A.; 32°56′S, 117°11′E.

Turnerella glauerti Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 202. Holotype, ♀, carded, WAM 33-816a. L. Glauert; col. 4-5.iii.1933; Rottnest I., W.A.; 32°00′S, 115°30′E.

Xanthesma nigrior Michener, 1965, *Bull. Am. Mus. nat. Hist.* **130:** 282-283. Holotype, ♂, pinned, WAM 54-564. A.M. Douglas; reg. 28.i.1954; between Karalee and Dedari, W.A.; between 31°16′S, 119°51′E and 31°05′S, 120°42′E.

Xanthesma parva Exley, 1969, *Aust. J. Zool.* **17**: 522-523. Holotype, ♀, carded, WAM 48-3082. A.M. Douglas; reg. xii.1948; Kukerin, W.A.; 33°12′S, 118°05′E.

Family Formicidae

Calomyrmex glauerti Clark, 1930, *Proc. R. Soc. Vict.* **42:** 125. Holotype, worker, carded, WAM 22-391. L. Glauert; col. 13.v. 1922; Milly Milly Station, W.A.; 26°04′S, 116°41′E.

Leptanilla swani Wheeler, 1932, *Psyche* **39:** 54-58. Syntypes, 3 workers, carded, WAM 32-1252 to 32-1254. W.M. Wheeler; reg. 9.vi.1932; Goyamin Pool, Chittering, W.A.; 31°28′S, 116°06′E.

Lithomyrmex glauerti Clark, 1927, *J.R. Soc. West. Aust.* **14**: 31-32. Syntypes, ♂, ♀, and 2 workers, carded, WAM 26-605a to 26-605d. L. Glauert; col. viii.1926; Irwin River, W.A.; 29°13′S, 115°05′E.

Myrmecia inquilina Douglas and Brown, 1959, *Insectes soc.* **6:** 13-16. Holotype, ♀, pinned, WAM 64-38. A.M. Douglas; col. 23.iii.1955; Badjanning Rocks, 4 miles [6 km] NW of Wagin, W.A.; 33°19′S, 117°20′E.

Rhytidoponera tyloxys Brown and Douglas, 1958, *Bull. Mus. comp. Zool. Harv.* **118:** 282-284. Holotype, worker, carded, WAM 64-37. K.G. Buller; col. vi.1952; Woodstock Station, W.A.; 21°37′S, 118°57′E.

Family Gasteruptiidae

Gasteruption mirabilifemorale Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56:** 76-77. Holotype, ♀, pinned, WAM 36-1052. A.M. Douglas; reg. 19.iii.1936; W. Midland, W.A.; 31°53′S, 116°00′E.

Gasteruption nigerrimum Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56:** 92. Holotype, ♀, pinned, WAM 53-366. R.P. McMillan; col. 16.i.1953; Cannington, W.A.; 32°01′S, 115°57′E.

Gasteruption subconicum Pasteels, 1957, *Mem. Inst. Sci. nat. Belg.* **56:** 44-46. Holotype, ♀, pinned, WAM 37-4519. A.M. Douglas; reg. xi-xii.1937; Narrogin, W.A.; 32°56′S, 117°11′E.

Family Halictidae

Halictus bremerensis Rayment, 1931, *J.R. Soc. West. Aust.* **17:** 171. Holotype, ♀, pinned, WAM 16-63. W.B. Alexander; col. i.1916; Bremer Bay, W.A.; 34°23′S, 119°23′E.

Family Ichneumonidae

Habronyx (Austranomalon) atropos Gauld, 1976, *Aust. J. Zool.* **24:** 622. Holotype, ♀, carded, WAM 78-602. L. Glauert; col. ix.1943; Wamenusking, W.A.; 32°07′S, 117°35′E.

Family Megachilidae

Megachile clypeata grandis Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 209. Holotype, ♀, pinned, WAM 32-89. L. Glauert; reg. i.1932; Rottnest I. (near Government House Lake), W.A.; 32°00′S, 115°30′E.

Megachile rottnestensis Rayment, 1934, *J.R. Soc. West. Aust.* **20:** 209-210. Holotype, ♂, pinned, WAM 31-1856. L. Glauert; reg. xii.1931; Rottnest I. (Bathurst Point), W.A.; 31°59′S, 115°32′E.

Megachile subremotula Rayment, 1934, *J. R. Soc. West. Aust.* **20:** 210. Holotype, ♀, pinned, WAM 31-1846. L. Glauert; reg. xii.1931; Rottnest I. (Bathurst Point), W.A.; 31°59′S, 115°32′E.

Family Pergidae

Clarissa hebe Benson, 1963, *J.R. Soc. West. Aust.* **46:** 83-84. Holotype, ♀, pinned, WAM 64-7. A.M. Douglas; col. 29.vii.1958; Tambrey, W.A.; 21°38′S, 117°36′E.

Eurys aglaia Benson, 1963, *J.R. Soc. West. Aust.* **46:** 82-83. Holotype, ♀, pinned, WAM 64-6. A.M. Douglas; col. 5.ix.1962; Yanchep, W.A.; 31°33′S, 115°41′E.

Phylacteophaga eucalypti occidens Benson, 1963, *J.R. Soc. West. Aust.* **46:** 84. Holotype, ♀, pinned, WAM 64-8. A.M. Douglas; col. 20.ix.1962; Nollamara, W.A.; 31°57′S, 115°51′E.

Family Sphecidae

Bembix goyarra Evans and Matthews, 1973, *Mem. Am. ent. Inst.* no. 20: 84-85. Holotype, ♂, pinned, WAM 71-804. T. Moriarty; col. 1963; Kathleen Valley, W.A.; 27°24′S, 120°39′E.

Bembix mundurra Evans and Matthews, 1973, *Mem. Am. ent. Inst.* no. 20: 179-183. Holotype, ♂, pinned, WAM 73-644. H.E. Evans and R.W. Matthews; col. 1.x.1969; Mullewa, 6 miles [10 km] W of, W.A.; 28°32′S, 115°27′E.

Sericophorus occidentalis Rayment, 1955, *Mem. natn. Mus. Melb.* no. 19: 28-29. Holotype, ♀, pinned, WAM 37-3929. A.M. Douglas; reg. 3.xii.1937; Narrogin, W.A.; 32°56′S, 117°11′E.

CLASS ONYCHOPHORA

ORDER MALACOPODA

Family Peripatopsidae

Peripatoides woodwardi Bouvier, 1909, in vol. 2, p.315, *Die Fauna Südwest-Australiens;* ed. W. Michaelsen and R. Hartmeyer. Holotype, ♀, in alcohol, WAM 4424. Michaelsen and Hartmeyer Expd.; col. 22.v.-11.x.1905; Station 99, Lion Mill [= Mt Helena], W.A.; 31°53′S, 116°12′E.

CLASS PYCNOGONIDA

ORDER PANTOPODA

Family Ammotheidae

Ammothella biunguiculata australiensis Williams, 1940, *J. R. Soc. West. Aust.* **25:** 197-200. Lectotype [designated by Child, 1975, *Smithson. Contr. Zool.* no. 190: 26], ♀, in alcohol, and four microscope slides of parts, WAM 70-80 and 70-80a to 70-80d. L. Glauert; reg. 28.v.1970; Rottnest I. (Bathurst Point), W.A.; 31°59′S, 115°32′E.

Nymphopsis acinacispinatus bathursti Williams, 1940, *J. R. Soc. West. Aust.* **25:** 200-201. Lectotype [designated by Child, 1975, *Smithson. Contr. Zool.* no. 190: 26-27], ♂, in alcohol, WAM 70-160. L. Glauert; reg. 28.v.1970; Rottnest I. (Bathurst Point), W.A.; 31°59′S, 115°32′E.

Family Callipallenidae

Pallenopsis cidaribatus Child, 1975, *Smithson. Contr. Zool.* no. 190: 16-18. Holotype, ♂, in alcohol, WAM 70-3938. CSIRO Station; col. 5.x.1963; at 128-141 metres depth, W. of North West Cape, W.A.; 21°50′S, 113°46′E.

Pycnothea flynni Williams, 1940, *J. R. Soc. West. Aust.* **25:** 202-204. Holotype, ♂, in alcohol, and six microscope slides of parts, WAM 135-62 (= 78-595 and 78-595a to 78-595f). L. Glauert; reg. 24.viii.1970; Rottnest I. (Bathurst Point), W.A.; 31°59′S, 115°32′E.

Family Colossendeidae

Rhopalorhynchus dampieri Child, 1975, *Smithson. Contr. Zool.* no. 190: 8-10. Holotype, ♂, in alcohol, WAM 70-3953. CSIRO Station; col. 5.ii.1964; at 113-122 metres depth, W. of Lancelin I., W.A.; 31°05′S, 114°55′E.

Family Nymphonidae

Nymphon flindersi Child, 1975, *Smithson. Contr. Zool.* no. 190: 3-5. Holotype, ♀, in alcohol, WAM 73-76. L.M. Marsh and M.H. Shepherd; col. 8.iii.1972; at 17-33 metres depth, W. of Garden I., W.A.; 32°13′S, 115°33′E to 32°13′S, 115°31′E.

Nymphon rottnesti Child, 1975, *Smithson. Contr. Zool.* no. 190: 5-7. Holotype, ♀, in alcohol, WAM 70-3985. CSIRO Station; col. 12.x.1963; at 137-143 metres depth, W. of Rottnest I., W.A.; 32°00′S, 115°16′E.

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